antecedent basis. With all respect to the Examiner, this rejection is traversed. The Examiner's attention is directed to line 3 of the originally filed claim 1 for a proper antecedent basis. Accordingly, withdrawal of the 35 USC §112, second paragraph rejection of claim 1 is respectfully requested.

The Office action rejects claims 1-5 under 35 USC §102(b) over Hiroki et al. (JP 01186540). With all respect to the Examiner, the 35 USC §102(b) rejections of claims 1-5 are traversed. The Examiner's attention is directed to the attached "Abstract" of Hiroki et al. According to that Abstract, the purpose of Hiroki et al. is: "To remove the unnecessary portion of the magnetic field adversely affecting on the focusing and concentration of a beam by constituting part or all of electrode of an electron gun with a superconducting material." Based on that purpose, and on the fact that Figure 4 of Hiroki et al. does not show element 30 passing through element 4, element 30 is not understood as a slit.

Supporting the understanding that element 30 is not a slit is the description of element 30 provided in Figure 4. That description shows the Japanese character Ka, which means eddy-whirlpool-vortex, followed by the Japanese characters Den and Ryu, which together mean electric current. Reference the Nelson attachment, which provides copies of Japanese characters taken from "Nelson, The Modern Reader's Japanese-English Character Dictionary." Thus, element 30 is understood as eddy current(s).

Therefore, claims 1-5 clearly distinguish over Hiroki et al. in that the cited reference does not teach or suggest a slit as recited in those claims. Accordingly, withdrawal of the 35 USC 102(b) rejections of claims 1-5 is respectfully requested.

The Office action rejects claim 7 under 35 USC §103(a) over Hiroki et al. However, since claim 7 is a dependent claim of allowable base claim 1, claim 7 is patentable over Hiroki et al. Accordingly, withdrawal of the 35 USC §103(a) rejection of claim 7 is respectfully requested.

The Office action rejects claim 7 under 35 USC §103(a) over Kazuaki (JP 61029046). With all respect to the Examiner, that rejection is respectively traversed. Kazuaki does not teach or suggest orienting slits relative to a magnetic field as recited in claim 1, from

Application No.: 09/883,430 6 Docket No.: NL 000337 which claim 7 depends. Accordingly, withdrawal of the 35 USC §103(a) rejection of claim 7 is respectfully requested. In view of the foregoing, the Applicants believe that the subject application is in condition for allowance. Applicants request the Examiner to reconsider and reexamine the subject application. An early, favorable action is respectfully solicited. If the Examiner deems that a telephone call would further the prosecution of this application, the Examiner is invited to call the Mr. Eric Bram at (914) 333-9635. All correspondence should continue to be sent to the address of record (not to the signing attorney). If these papers are not considered timely filed by the United States Patent and Trademark Office, or if any additional fees are required, please follow the instructions provided in a paper entitled "Authorization Pursuant to 37 CFR §1.136 (a)(3) and to Charge Deposit Account" that was filed concurrently with the subject application. Respectfully submitted, Dated: March 3, 2003 Registration No.: 33,920 The Law Firm of John M. Kelly 2117 L Street, NW #347 Washington, DC 20037 (202) 744-4787 Attachments: Version With Markings to Show Changes Made Return Receipt Post Card "Nelson attachment. Abstract of Hiroki et al. Amendment Transmittal Letter

Application No.: 09/883,430 7 Docket No.: NL 000337

Attachment

Version With Markings to Show Changes Made

1. (Amended) A color cathode ray tube comprising a display screen, an electron gun for generating three electron beams, said electron beams being directed towards the display screen, and deflection means for generating a magnetic field in a first direction for deflecting the electron beams across the display screen, said electron gun comprising a centering cup having a first part provided with a central aperture and two outer apertures for passing the three electron beams, and a second part extending in the direction of the display screen for avoiding sparks, the centering cup being provided with slits for reducing the effects of eddy currents, [characterized in that] wherein the centering cup comprises a first bridge and a second bridge [creating] that form the slits between the first and second parts, wherein [such that] a first line drawn between a first end of the first bridge and a first end of the second bridge intersects a second line drawn between a second end of the first bridge and a second end of the second bridge, and the bisectrix of the intersecting lines is substantially parallel to the first direction.

- 2. (Amended) A color cathode ray tube as claimed in claim 1, [characterized in that] wherein the first part comprises a plate provided with the central aperture and the two outer apertures, and wherein the slits [being] are substantially parallel to the plate.
- 3. (Amended) A color cathode ray tube as claimed in claim 1, [characterized in that] wherein the lengths of the slits are at least 50% of the diameter of the centering cup.
- 4. (Amended) A color cathode ray tube as claimed in claim 1, [characterized in that] wherein the second part [comprises] forms a circular symmetric jacket.
- 5. (Amended) A color cathode ray tube as claimed in claim 1, [characterized in that] wherein the first and second parts [comprise] form respective circular symmetric jackets.
- 7. (Amended) A color cathode ray tube as claimed in claim 1, [characterized in that the] wherein each slit has a width of about 0.1 mm.

NELSON

SECOND REVISED EDITION

戈 F 手 扌 支 支 女文斗 斤 方 旡 Ħ 日 月 木 欠 止 歹 殳 毌 比 毛 八气【水彩 ·氷】火 爪 M 父 交爿 1

85 養 jiyō nourishment 市 kōshi port city 養分 jiyōbun nutritious element, nutrient 養物 jiyöbutsu nourishing food 養剤 jiyōzai nutrient medicine (as vitamins) 養過多 jiyōkata hypertrophy 養灌腸 jiyō kanchō rectal feeding m 灣 WAN gulf, bay, inlet. wannyu inlet, gulf wanké bay entrance '内 wannai inside the bay wankyoku curve, crook, bend wankei bay formation 屈 wankutsu curve, crook, bend Wanryū Gulf Stream 12 p wan-ō bay bottom 19頭 wantō head of a bay 2628 Ko mixu-umi lake. kojō on the lake koshin center of a lake 水 kosui lake kohen the vicinity of a lake 底 kotei lake bottom kogan lake shore koshō lakes and marshes 沼学 koshōgaku limnology in komen lake surface 展 kofū lake breeze 10 ## kohan lake shore, lakeside 12港 kokō lake harbor 2629 Ka. uzumaki, uzu eddy, whirl-P 11 F1135 KA. uzumaki hachū in the whirlpool 7状星雲 kajō seium spiral nebula Sis. 状星雲説 kajō seiunsetsu nebular hypothe-*券 uzumaki eddy, whirlpool, vortex; coil. uzuma(ku) eddy, whirl, swirl, curl 潤空気 *shitsujun kūki* moist air, humid air 巻発条 uzumaki hatsujō coiled spring 霧 shitsumu wet fog * kamon whirlpool design "動 kadō vortex "雲説 ka-unsetsu nebular hypothesis "類 uzushio whirling tides

közu harbor map HI minatomachi harbor towa komon harbor entrance 都 köto port city 11 🎉 kõmu harbor service 務部 kömubu harbor office 務部長 kömu buchō harbormaster 税 közei harbor dues kōwan harbors 湾労働者 kōwan rōdōsha longshoreman 18 🅦 kõtõ waterfront SHITSU dampness, mois-ture; itch. shime(ru) get damp, get moist, get wet. shime(su), shime-(rasu) wet, moisten, dampen. shito(ru) get damp, become moist. shime(ppoi) damp, moist, humid, wet; gloomy, depressing. shime(ri) dampness, humidity, moisture; a sprinkle. shime(yakana) quiet, gentle; gloomy, dismal. H shitsuden rice fields that always have standing water 布 shippu compress, fomentation 気 shike(ru), shikke(ru) get damp, be moist, be wet. shikke, shikki, shime(ri)ke moisture, humidity, dampness. shike moisture # shitchi swampy land, damp ground shime(ri)goe tearful voice 板 shitsuban wet plate (photography) 性 shissei wet (pleurisy) 性肋膜炎 shissei rokumakuen wet pleurisy ·度 shitsudo humidity 度計 shitsudokei hygrometer 16 核 shisshin eczema, rash "船渠 shitsusenkyo, shitsudokku wet dock shitsuryō wet weight 溜 shitsujun moisture, humidity, dampness 潤気侯 *shitsujun kikō* humid climate

2632 Soku. haka(ru) (see under 計 F1136 4312.0).

曲 sokuchi land survey, geodetic survey

地学 sokuchigaku geodesy

haka(ri)-shi(ru), sokuchi suru infer, understand, fathom, determine

sokutei measurement, survey, sounding, calibration, determination, test

定法 sokuteihō mensuration

sokudo measurement

音器 sokuonki sonometer

10侯 sokkō meteorological observation

2627-2632

uzusen spiral line

uzuwa whirlpool form

内 kōnai inside the harbor

外 kōgai outside the harbor

🖂 kōkō, minatoguchi harbor entrance

L. Ko minato. -kā

port, harbor.

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unsai edge of the clouds; distant sky showers un-ei cloud shape ungei clouds and a rainbow; sign of unka clouds and haze. kumo-kasumi clouds and fog; disappearance, fleeing [tains) soar high un-ei cloud shade kumo (ni) sobie(ru) (buildings or mounkumo sudare cloud screen (over the moon) ummu clouds and fog unjo clouds and earth; heaven and earth; great contrast

5047 HAKU. HOKU. hyō hail. 電器

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"害 hyōgai hail damage

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子顕微鏡 denshi kembikyō electron micro-文 dembun telegram, telegraphic message 5048 REI zero, nothing, cipher; fall. F2026 kobo(reru) vi spill, overflow, be scattered. kobo(su) ot spill; grumble over. reika below zero, subzero '余 reiyo residue, remnant 位 rei-i zero 位線 rei-isen zero line 幸 kobo(re)zamoa(i) a godsend, a windfall 度 reido zero, freezing point 砕 reisai a tiny bit 点 reiten zero; freezing point; zero grade reiji twelve o'clock; noon; midnight "Ky reihai a shutout (in a game); losing out (in love) reisai na petty, small, infinitesmal 細農 reisaino poor peasant "落 ochibu(reru)=落魄 4003.15. reiraku ruin, downfall, reduced circumstances, Lwithering " reisen zero fighter

RAI ikazuchi thunder. thunder; thunderbolt. 8049 RAI ikazuchi thunder. kaminari 文 raimon zigzag k raika lightning; fire caused by lightning 公 raikō the god of thunder [ir] raido blindly following the crowd 光 raikō lightning raimei renown, fame; your famous name 吉 raises noise of thunder rain thunderstorm raijin the god of thunder 於 raiyo(ke) lightning rod

"前 raidō rumble of thunder; roaring 雪 raisetsu snow thunderstorm raism thunderhead 理

raiden thunder and lightning, thunder-Lbolt " raimei thunder

raisan fulminic acid

raishi the god of thunder

raikan percussion cap, detonator kaminari-yo(ke) lightning rod raitei thunder raigeki torpedo attack 整機 raigekiki torpedo-carrying plane kaminari oyaji snarling old man 5050 DEN electricity. inazuma light-F2028 ning. denryoku electric power 力学 denryokugaku electrodynamics 1 _ denkō electrician 工長 denkūchō head electrician 7 denshi electron 子丁学 denshi kõgaku electronics scope 子学 denshigaku electronics

(L' denka electrification 火 denka electric spark 火距離 denka kyori sparking distance 火間族 denka kangeki spark gap 压 den-atsu voltage

the denchi electric battery 休日 denkyūbi no-electricity day * denkō electric light; lightning 光石火 denkō-sekka an instant, a flash

光形 denkōkei zigzag ∬ dentō electric light 灯会社 dentōgaisha electric-light company 灯料 dentoryo electric-light charges 灯料金 dento ryōkin electric-light charges 灯線 dentosen lamp cord 気 denki electricity; electric light 気力学 denki rikigaku electrodynamics 気丁 denkikō electrician

気工学 denki kōgaku electrical engineering 気分析 denki bunseki electroanalysis 気分解 denki bunkai electrolysis; electroanalysis 気写字機 denki shajiki teletype 気広告 denki kõkoku electric sign

気灯 denkitō electric light 気死刑 denki shikei electrocution 気会社 denkigaisha electric company 気技師 denki gishi electrical engineer 気店 denkiten electric shop 気板 denkiban electrotype 気炉 denkiro electric furnace; electric oven 気学 denkigaku science of electricity 気抵抗 denki teikō electrical resistance 気始動機 denki shidōki electric starter 気炬燵 denkigotatsu electric foot warmer 気係 denkigakari electrician 気刺刀 denki kamisori electric razor

気通信 denki tsüshin telecommunication

8 金 長 闁 阜 ß 隶 佳 輔 背

気浴 denkiyoku electric bath 気料 denkiryō charge for electricity 気料金 denki ryōkin charge for electricity 気時計 denkidokei electric clock 気量 denkiryo amount of electricity 気椅子 denki isu electric chair 気蒲団 denkibuton electric blanket 気照明 denki shōmei electric lighting 気暖房 denki dambō electric heating 気暖房法 denki damböhō electric heating 気鍋 denkidō electrolytic copper 気磁石 denki jishaku electromagnet 気熔接 denki yosetsu electric welding 気器! denki kigu electrical appliances 気鋼 denkikō electric steel 気鍍金 denki mekki electroplating, gal-気擬注 denki ryōhō electrotherapy 気流 denki kamado electric range 気鰻 denki unagi electric eel 付 den-i electric potential electric train densha electric car, streetcar, tramcar, 車通 denshadō(ri) streetcar line 車賃 denshachin carfare M denko electric arc 爺 demmei telegraphic instructions denso electrical facsimile transmission 送写真 densō shashin phototelegraph 波 dempa electric wave, radio wave 波妨害 dempa bōgai jamming 波波長 dempa hachō wave length 波計 dempakei wave meter 波料 demparyō air-time charge 波探知機 dempa tanchiki radar denchu telephone pole Cablegram denshin telegraph, telegram, wire, cable, 信印字機 denshin injiki teletype 信柱 denshimbashira telegraph pole 信為替 denshingawase telegraphic transfer 信料 denshinryo telegram charge 信術 denshinjutsu telegraphy 信線 denshinsen telegraph line 信機 denshinki telegraph instrument densen electric lightning flash denka electric charge 訓令 denkunrei telegraphic instructions 流 denryū electric current 流言 denryūkei galvanometer, ammeter 流転換器 denryu tenkanki commutator 探 dentan radar 液 den-eki electrolyte 球 denkyū electric-light bulb 祖 dembin battery jar 動力 dendöryaku electromotive power 動機 dendōki electric motor denjo electric field

केंद्र denkyoku electrode, pole, terminal denryō amount of electricity 朝 dempő telegram 報用紙 dempō yōshi telegiam blank 報為替 dempogawase telegraphic transfer 報料 demporyo telegram charge 報略号 *dempō ryakugō* telegraphic address 報暗号帳 dempō angōchō telegraphic code 報頼信紙 dempô raishinshi telegram biank 源 dengen source of electricity denro electric circuit 鉄 dentetsu electric railway denrei electric bell denshoku illumination; electric decoradenchiku electric phonograph tions 解 denkai electrolysis 解液 denkai eki electrolyte 解質 denkaishitsu electrolyte ifi dentou telephone if [] denwaguchi mouthpiece; telephone 話加入者 demva kanyūsha telephone subscriber [ator 話交換手 denwa kōkanshu telephone oper-話交換局 denwa kōkankyoku telephone central, telephone exchange 語样 demvaryo telephone charges 話帳 demvachō telephone directory 話術 demoajutsu telephony 武管 dentcakan speaking tube, mouthpiece 話機 denwaki telephone instrument 接 dempatsu permanent wave 做 [i denjishaku electromagnet 磁気 denjiki electromagnetism 磁波 denjiha electromagnetic waves 磁鉄 denjitetsu electromagnet 鋳 denchū electrotyping 磐 dengeki electric shock 擊作戦 dengeki sakusen blitzkrieg Mennetsu electric heat 熱器 dennetsuki electric heater densen electric wire, electric line, telegraph wire, telephone wire, electric cord, 終布設 densen fusetsu cable laying | cable 約病 densembyō runner, run (in a stocking) 18 denki electrical machinery and appliances 微子 denkishi armature denken telegraph key denri electrolysis, ionization denran electric cable

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删绘 ukiyoe genre picture, ukiyoe #絵派 ukivoeha the ukiyoe school 世絵師 ukiyoeshi an ukiyoe artist affair 前 u(ki)bune pontoon Z, u(ki)na romance, scandal, rumor, love 灯台 u(ki) tōdai lightship Tonness 気 u(wa)ki inconstancy, faithless love, wan-気分 u(kare) kibun sportive spirit, mirth, Ttious person gaiety 気者 u(wa)kimono inconstant lover, licenfugen wild rumor, unfounded report 体 futai floating body L' fuchin, u(ki)shizu(mi) rise and fall, ebb and flow, ups and downs, vicissitudes 男 u(kare) otoko dissolute man 足 u(ki)ashi wavering 足立 u(ki)ashita(tte) ready to run away 足場 u(ki)ashiba floating work platform u(ki)numa, u(ki)nu muddy swamp 歩 u(kare)-aru(ku) gad around. u(ki)ayu(mi) walking lightly, tiptoeing H u(ki)gu water wings [battleship 垢 u(ki)aka scum 城 fujō, u(ki)shiro floating castle, giant # u(ki)su floating grass plot (in a muddy [precarious business u(ki)kusa floating weed, duckweed; "根 u(ki)ne roots of water plants u(ki)u(ki) to buoyantly, cheerfully, jaun-# u(ki)bakari hydrometer 脂 u(ki) abura floating oil u(kare)garasu crow crying by moonlight g, u(ki) shima floating island u(ki)ni flotsam, flotage 華 fuka display, ostentation, vanity, frivolity 起重機 u(ki) kijūki floating crane 流 furyū floating, drifting 流水雷 furyū suirai floating mine 流機雷 furyū kirai floating mine, drifting 没 furō vagrancy, wandering 浪人 furōnin a vagrant 浪児 furōji juvenile vagrant, waif 浪者 furōsha hobo, tramp, vagabond "角 u(ki)uo surface fish 器 ukibori relief, embossed carving 建 u(ki) kusa floating plants 袋 u(ki)bukuro air bladder; water wings, life preserver, float, tire 単 u(ki)su floating nest 船渠 u(ki)dokku floating dock 👑 Juju floating, suspension

遊生物 fuyū seibutsu plankton 「unsettled

動 fudō suru float; be wafted; fluctuate; be 動人口 *fudō jinkō* floating population

"揚 fuyō floating, flotage, flotation

なることのはないのうというというというできているないとないとなるとなると

渣 u(ki)kasu scum 旗 fuyū floating, suspension fuyō, u(ki)ha floating leaf fu-un, u(ki)gumo floating cloud; some-皆 u(ki)ga(shi) illegal loan | thing unsettled 棧橋 u(ki)sambashi floating pier ing www.ing. unsteady, faltermuku(mu) swell, bloat. fushu, mukumi edema, dropsy Sleeping adulterously □ u(ki)ne sleeping in a ship; uneasy sleep; fuhyō floating, flotage 説 fusetsu wild rumor, speculation 塵子 unka leaf hopper, a rice insect 15標 fuhyō buoy 潮 u(ki)shio tidal current u(ki)wa buoyant water ring bridge 16 fukvō, u(ki)hashi floating bridge, pontoon fil fubyō floating anchor, drift anchor 蔫 fuhaku frivolity, levity u(ke)o(ri), u(ki)o(ri) weaving with raised [party figures; brocade noisy **隘** u(kare)sawa(gi) merrymaking; 10 a u(kabu)se chances in life 2576 Ru. Ryū current; counter for A files flags. naga(reru) flow, trickle, ooze, drain, run down; be washed away; float, drift; wander; be forfeited, be foreclosed; lapse; incline to; be swayed by; (years) pass. naga(su) dash, pour, sluice, let run out, flush; float, set adrift; spill; shed (tears); wash away, wash off; forfeit, foreclose; exile; cruise (taxis). naga(re) flow, stream, waters, current; passage (of time), descent; school; abandonment; foreclosure; tendency. naga(shi) sink; bath-attendant service; cruising (taxi); strolling musician. (o)naga(re) suspension, adjournment, calling off. -ryū style, fashion, type, form, manner; school, system; class, order, rate, rank, grade. 人 runin exile ryūnyū suru, naga(re)-i(ru) flow into naga(re)gawa running stream

naga(re)-kuda(ru) flow down; drink down; descend

ryūbō having no settled abode

naga(re)dama stray bullet

ryūboku, naga(re)gi driftwood

naga(re) mizu, ryūsui running water

naga(shi)moto kitchen sink and work area naga(re)-ko(mu) flow into, run into; drift

into. naga(shi)-ko(mu) wash down; pour

込担保 naga(re)ko(mi) tampo foreclosure

ELECTRON GUN

Patent Number:

JP1186540

Publication date:

1989-07-26

Inventor(s):

SANO HIROKI; others: 02

Applicant(s):

HITACHI LTD

Application Number: JP19880003727 19880113

Priority Number(s):

IPC Classification: H01J29/50; H01J29/51

EC Classification:

Equivalents:

Abstract

PURPOSE To remove the unnecessary portion of the magnetic field adversely affecting on the focusing and concentration of a beam by constituting part or all of electrodes of an electron gun with a superconducting

CONSTITUTION:A deflecting yoke 6 to deflect an electron beam is installed around a funnel section 8 and forms the deflecting magnetic field 7. A thin film 11 made of a superconducting material is coated or deposited on the inner wall of a neck section so as to surround an electron gun, members 12 made of the superconducting material are fitted to the inner wall of a seal cup 4. These superconducting members 12 are fitted on lines passing nearly the centers between respective beam passing holes in the direction nearly perpendicular to a line connecting a center beam passing hole 15b and side beam passing holes 15a and 15c and the passing direction of the beam. Part of the deflecting magnetic field 7 formed by the deflecting voke 6 can be prevented from infiltrating into a focusing electrode 3 or an accelerating electrode 4 by the superconducting members 12, and the Lorentz force by the deflecting magnetic field can be prevented from adversely affecting the beam shape during the focusing and acceleration of the beam.

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